

Sebacic acid, 3,5-dichlorophenyl isobutyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C20H28Cl2O4/c1-15(2)14-25-19(23)9-7-5-3-4-6-8-10-20(24)26-18-12-16(21)1 |
| InchiKey: | GSQUOXUEROKAMJ-UHFFFAOYSA-N |
| Formula: | C20H28Cl2O4 |
| SMILES: | CC(C)COC(=O)CCCCCCCC(=O)Oc1cc(Cl)cc(Cl)c1 |
| Mol. weight [g/mol]: | 403.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -283.47 | kJ/mol | Joback Method |
| hf | -768.90 | kJ/mol | Joback Method |
| hfus | 51.26 | kJ/mol | Joback Method |
| hvap | 90.41 | kJ/mol | Joback Method |
| log10ws | -6.80 | | Crippen Method |
| logp | 6.219 | | Crippen Method |
| mcvol | 308.260 | ml/mol | McGowan Method |
| pc | 1265.55 | kPa | Joback Method |
| rinpol | 2791.00 | | NIST Webbook |
| tb | 920.64 | K | Joback Method |
| tc | 1133.87 | K | Joback Method |
| tf | 555.78 | K | Joback Method |
| vc | 1.188 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 929.62 | J/molxK | 920.64 | Joback Method |
| cpg | 986.48 | J/molxK | 1098.33 | Joback Method |
| cpg | 977.44 | J/molxK | 1062.79 | Joback Method |
| cpg | 967.26 | J/molxK | 1027.25 | Joback Method |
| cpg | 955.91 | J/molxK | 991.72 | Joback Method |
| cpg | 943.37 | J/molxK | 956.18 | Joback Method |
| cpg | 994.41 | J/molxK | 1133.87 | Joback Method |
| dvisc | 0.0000374 | Paxs | 920.64 | Joback Method |
| dvisc | 0.0000480 | Paxs | 859.83 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000640 | Paxs | 799.02 | Joback Method |
| dvisc | 0.0000893 | Paxs | 738.21 | Joback Method |
| dvisc | 0.0001325 | Paxs | 677.40 | Joback Method |
| dvisc | 0.0002124 | Paxs | 616.59 | Joback Method |
| dvisc | 0.0003776 | Paxs | 555.78 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U355274&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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